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The skull compared with that of the Common Rat (Mus decumanus, Auct.) differs chiefly in having the nasal portion more elongated : the anterior root of the zygoma, as in that animal, is in the form of a thin plate, but this plate is less extended in its antero-posterior direction, is directed obliquely outwards and upwards, and leaves a tolerably large and nearly round ant-orbital opening, thus differing from the Common Rat, in which the lower portion of this opening is in the form of a vertical slit: the zygomatic arch is less extended in the longitudinal direction, the incisive foramina are much smaller, and the auditory bullæ are rather smaller in proportion. The molar teeth are rooted; the foremost of these teeth in either jaw is the largest, and the posterior one the smallest : in the upper jaw, as in Mus, the molars present a central row of larger, and two lateral rows of smaller tubercles; and the molars of the lower jaw have two principal rows of tubercles; there are however some slight modifications in the structure of these teeth, which should be noticed. The front molar of the upper jaw has three central tubercles, three smaller ones on the outer side and two on the inner side, and besides these there is a small ninth tubercle on the posterior part of the tooth, which is not observed in the Black and Common Rats; the second molar has two small extra tubercles, one in front and one behind; the crown of this tooth therefore presents eight instead of six tubercles, as in Mus proper, and the last molar possesses one extra small tubercle, which is placed on the anterior and outer part of the tooth. The molars of the lower jaw very closely resemble those of Mus decumanus.

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The name *Cricetomys* was proposed for this new subgenus, and that of *Gambianus* to distinguish the species, and to indicate the locality in which it was first discovered. The principal characters may be thus expressed :—

Subgenus ad genera Cricetus et Mus dicta affine, et inter hæc medium locum tenens. Criceto simile quoad saccos buccales, Muri simile quoad formam corporis et caudæ; hâc perlongâ et pilis brevibus vestitâ, inter quos squamæ in more annulorum positæ videntur. Pedes ut in Mure.

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Longitudo ab apice rostri ad caudæ basin	16	0
basin auris	2	9
tarsi digitorumque	2	6
auris	0	11
caudæ	15	0

The Gambia Pouched-Rat is about double the size of the common Rat (Mus decumanus); in its colouring and proportions it greatly resembles that animal; the fur is rather harsher, and more scanty: the general colour of the upper parts of the body is a trifle paler than in Mus decumanus. The head is tolerably long, and pointed; the ears are of moderate size and rounded form; the feet are of moderate size; the tail is nearly equal to the head and body in length, thick at the base, covered with small adpressed harsh hairs; but these are not sufficiently numerous to hide the scales; about one third of the tail at the base is of a deep brown colour, the hairs covering the remaining portion are pure white, and the skin itself has evidently been of a paler hue than on the basal part of the tail. The fur on the body is somewhat adpressed, and the hairs are glossy on the back ; they are of an ashy-gray colour at the base; the apical half of each is brownish-yellow, but at the points many of them are brownish; many longer hairs intermixed with the ordinary fur of the back are almost entirely of a brownish-black colour. The whole of the under parts of the head and body and inner side of the limbs are white; the hairs on the belly are rather scanty, and of an uniform colour to the root: the fore feet are whitish, and the tarsi are white, but clouded with brown in the middle. The ears are but sparingly clothed with short hairs, which on the inner side are whitish, and on the outer brown.

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Mr. Ogilby read his paper entitled 'A Monograph of the Hollowhorned Ruminants,' of which the following is an abstract :---

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The 'Systema Naturæ' is next considered ; and although arbitrary and empirical, the generic definitions of Linnæus (the author of the paper states,) possess all the logical correctness and simplicity which so peculiarly characterize the genius of that great man. Though neither natural nor scientific, his distribution was, at all events, exclusive and diagnostic, in reference to the small number of Ruminants then known. But whilst the zoology of the Ruminantia remained thus almost stationary in the hands of Linnæus, it was making rapid and brilliant progress under the auspices of his great rival and cotemporary, Buffon: even as early as the year 1764, two years before the publication of the 12th edition of the 'Systema Naturæ,' the French philosopher had described new forms, and indicated important relations among the hollow-horned Ruminants. The article 'Gazelles,' contained in the 12th volume of his great work, was the most important addition which had been made to the generic distribution of the Ruminants since the time of Ray, and must be considered as the first monograph of the genus two years afterwards founded upon it, and more formally proposed by Pallas under the name of Antilope.

The works of Pallas, Pennant, Allaman, Gmelin, Erxleben, Shaw, Illiger, Lichtenstein, De Blainville, and Col. Hamilton Smith, next pass under the notice of the author.

The consideration of the muzzle and lachrymal sinus was first introduced by Illiger, and his principles were quickly adopted, in successive monographs by Lichtenstein, De Blainville, and Hamilton Smith, to subdivide the Antelopes into something more nearly approaching natural groups than the old principles admitted. The publication of Illiger's 'Prodromus' may be considered therefore as an epoch in the history of these animals.

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Having demonstrated the imperfections of the actual distribution of hollow-horned Ruminants, Mr. Ogilby proceeds to the exposition of the principles which he proposes to make use of for that purpose, and to explain the nature and extent of his own researches. He insists upon the law of classification, that no generic characters should be admitted but such as are founded upon the necessary relations that subsist between the organic structure of animals and their habits and economy.

The next section of the monograph is devoted to the consideration of the horns of the *Ruminantia*. Under this head the author first treats of their substance; 2ndly, their permanent or deciduous character; 3rdly, their presence or absence in different genera and sexes; and 4thly, their number, forms, and flexures.

The distinctions between the horns of the stag tribe generally, and those of the hollow-horned Ruminants, are pointed out, and in the next place the various modifications observable in the horns and their core of the latter group. "In some cases the substance of this bony core is solid, or at least penetrated only by minute pores; in others, and they are by far the greater number, it is partially hollow, or filled with large cancelli, which communicate with the frontal sinuses. These variations are not confined to any particular groups, but are equally common to solid and hollow-horned genera. The giraffe, for instance, has very extensive cancelli; so likewise have the oxen, sheep, goats, and all the larger species hitherto classed among the antelopes: nor have I found the solid core, so much insisted on by MM. Cuvier and Geoffroy St. Hilaire, in any of these animals, except the A. Cervicapra, the Dorcas, and their allied species."

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A superficial slit, situated in a depression of the maxillary bone, on either side, called by the author the maxillary sinus, is found in certain Ruminants hitherto classed among the Antelopes; its secretion is of a thin watery consistence, and thus differs from the secretion of the crumens. The situation of these glands, and their peculiar secretion, induces the author to regard them as distinct organs, and he doubts their coexistence with the crumens, though M. F. Cuvier and Colonel Smith have reported such sometimes to be the case.

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The modifications of the feet are considered as scarcely definite enough to be employed for generic definitions: "the glands or pores which open between the toes of many Ruminants afford much better characters for this purpose, and bear a very evident relation to the habits and geographical distribution of the animals. These glands are of greater or lesser extent in different genera, according to the nature of the localities which they frequent; in the *Gazelles, Antelopes, Bubals,* and *Oryxes,* which inhabit the burning deserts of Africa and central Asia, they are extremely large, and frequently occupy the whole interspace between the first and second phalanges; in the *Sheep, Capricorns,* and *Tragelaphs* again, which live on the open grassy downs and mountains of a less arid nature, they are of a much smaller size; whilst in the *Oxen, Calliopes, &c.,* which inhabit the moist forests and swamps of tropical regions, or grassy meadows of temperate climates, they are altogether wanting.

After describing the uses of these digital pores, and pointing out the great influence they have on the economy and manners of the animals, the author observes that he is not aware of their having been noticed by any previous zoologists, and concludes by expressing the hope that the employment of this and other influential characters, which it is the object of this first part of his monograph to explain, will be found to establish a logical, scientific, and natural arrangement among the *Ruminantia*, instead of the prevailing arbitrary and artificial system.

LINNÆAN SOCIETY.

April 7th.—Mr. Forster, V.P., in the Chair.

Dr. Farre, F.L.S., exhibited specimens of a singular form of gall on the leaves of a species of oak from Mexico. The gall consisted of an aggregation of hollow cylindrical tubes, nearly an inch in length, and furnished with a fringed orifice. The tubes were remarkable for their elegance and uniformity; their colour was white, suffused with red, especially towards the apex.

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Read, a continuation of Mr. Smith's "Arrangement of the Genera of Ferns."

April 21.—The Lord Bishop of Norwich, President, in the Chair.

Read, a paper by John Blackwall, Esq., F.L.S., entitled "The Difference in the Number of Eyes with which Spiders are provided, proposed as the Basis of their distribution into Tribes; with the characters of a new Family and three new Genera of Spiders."

Mr. Blackwall begins by stating his objections to the bases of arrangement adopted by MM. Walckenaer and Dufour in the subdivision of the order *Araneidea*, and proceeds to give his reasons for preferring a division founded on the number of eyes; in conformity with which he proposes three tribes, viz. 1. Octonoculata; 2. Senoculina; 3. Binoculina.

In the first tribe he proposes three new genera, two of them belonging to a family which he characterizes under the name of *Ciniflorida*: these genera he also characterizes under the names of *Ciniflo*, founded on the *Clubiona atrox* of Latreille, and *Operaria*, comprising the *Theridion benignum*, Walck., *Drassus exiguus*, Blackw., and *Drassus viridissimus*, Walck. The third genus characterized by Mr. Blackwall, is referred by him to the family of *Agelenida*, under the name of *Cavator*: it is founded on the *Clubiona saxatilis*, Blackw.

May 5.—The Lord Bishop of Norwich, President, in the Chair.

Read, "Additional Observations on some Plants allied to the natural order Burmanniaceæ." By John Miers, Esq., F.L.S.

These observations have reference chiefly to the relative position of the parts of the flower in the tribe of plants above-mentioned. The author remarks, that the stamina, placentæ, and stigmata in these plants, are disposed in the same line, and opposite the inner series of the perianthium. The placentæ are always invariably double; and the stigmata in such cases as the present are to be regarded as being made up of the confluent margins of the two adjoining carpel-leaves, as suggested by Mr. Brown in his learned Memoir on *Cyrtandreæ* lately published.

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Read, a continuation of Mr. Smith's "Arrangement of the Genera of Ferns."

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Read, a paper by John Blackwall, Esq., F.L.S., entitled "The Difference in the Number of Eyes with which Spiders are provided, proposed as the Basis of their distribution into Tribes; with the characters of a new Family and three new Genera of Spiders."

Mr. Blackwall begins by stating his objections to the bases of arrangement adopted by MM. Walckenaer and Dufour in the subdivision of the order *Araneidea*, and proceeds to give his reasons for preferring a division founded on the number of eyes; in conformity with which he proposes three tribes, viz. 1. Octonoculata; 2. Senoculina; 3. Binoculina.

In the first tribe he proposes three new genera, two of them belonging to a family which he characterizes under the name of *Ciniflorida*: these genera he also characterizes under the names of *Ciniflo*, founded on the *Clubiona atrox* of Latreille, and *Operaria*, comprising the *Theridion benignum*, Walck., *Drassus exiguus*, Blackw., and *Drassus viridissimus*, Walck. The third genus characterized by Mr. Blackwall, is referred by him to the family of *Agelenida*, under the name of *Cavator*: it is founded on the *Clubiona saxatilis*, Blackw.

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Don Mariano Lagasca, Professor of Botany, and Director of the Royal Botanic Garden at Madrid, was a native of the province of Arragon, where his father followed the occupation of a farmer. He was sent at an early age to the Gymnasium of Tarragona, and after pursuing the course of study prescribed at that institution, he repaired to Madrid to complete himself for the medical profession, for which he had evinced a predilection. At Madrid he had the good fortune to attend the lectures, and to acquire the friendship, of the celebrated Cavanilles, at that time Professor of Botany in the Spanish capital, and these circumstances laid the foundation of the eminence to which he afterwards attained. In 1822, on the assembling of the Cortes, he was returned Deputy for his native province, and on the overthrow of the constitutional form of government in November of the following year, he was obliged to consult his safety by flight, first to Gibraltar, and afterwards to this country, where his high moral character, amiable disposition, and eminent talents, gained him universal esteem and respect.

It was in Systematic Botany that Professor Lagasca had more particularly distinguished himself, and he has added greatly to our knowledge of various families of plants, such as *Umbelliferæ*, *Dip*saceæ and *Compositæ*, of one of the groups of which, the *Labiatifloræ*, he may be regarded as the founder.

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